

**PROJECT DESCRIPTION**

**GENERAL**  
THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC CONTROL SIGNAL TO INSTALL LED TRAFFIC SIGNAL HEADS AND INSTALLATION OF ACCESSIBLE PEDESTRIAN SIGNALS AND COUNTDOWN PEDESTRIAN SIGNALS ACROSS THE NORTH LEG AT THE INTERSECTION OF MD 27 (RIDGE ROAD) AND SWEEPSTAKES ROAD/MARLBORO DRIVE IN MONTGOMERY COUNTY, MD. MD 27 (RIDGE ROAD) IS ASSUMED TO RUN IN A NORTH SOUTH DIRECTION.

**INTERSECTION OPERATION**  
THE INTERSECTION OPERATION WILL REMAIN THE SAME.

**TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS**  
MD 27 (RIDGE ROAD) AND SWEEPSTAKES ROAD/MARLBORO DRIVE  
1. MD 27 (RIDGE ROAD) AND SWEEPSTAKES ROAD/MARLBORO DRIVE  
**TYPICAL INTERSECTION, STREETS AT 90 DEGREES**  
WAIT: "WAIT TO CROSS RIDGE ROAD AT SWEEPSTAKES ROAD/MARLBORO DRIVE"\*  
WALK: RAPID TICK  
WALK: "WALK SIGN ON TO CROSS RIDGE ROAD"

\* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10'  
\*\* MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

**CONTROLLER REQUIREMENTS**  
THE EXISTING POLE MOUNTED CABINET AND CONTROLLER WILL BE USED. SHA FORCES TO INSTALL VIDEO INTERFACE EQUIPMENT.

**MAINTENANCE OF TRAFFIC**

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.02-02 (SHOULDER WORK)  
STANDARD NO. MD-104.02-04 (LANE SHIFT)  
STANDARD NO. MD-104.06-07 (MOBILE SERVICE WORK/INTERSECTION)

**EQUIPMENT LIST "A"**

A. EQUIPMENT TO BE SUPPLIED BY THE SHA		
CAT. CODE	QUANTITY	DESCRIPTION
900000	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
900000	2 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : - 2 EACH R10-3(1) SIGN (9 IN. X 15 IN.) TO READ "PUSHBUTTON TO CROSS RIDGE ROAD"

**EQUIPMENT LIST "C"**

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA  
ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR

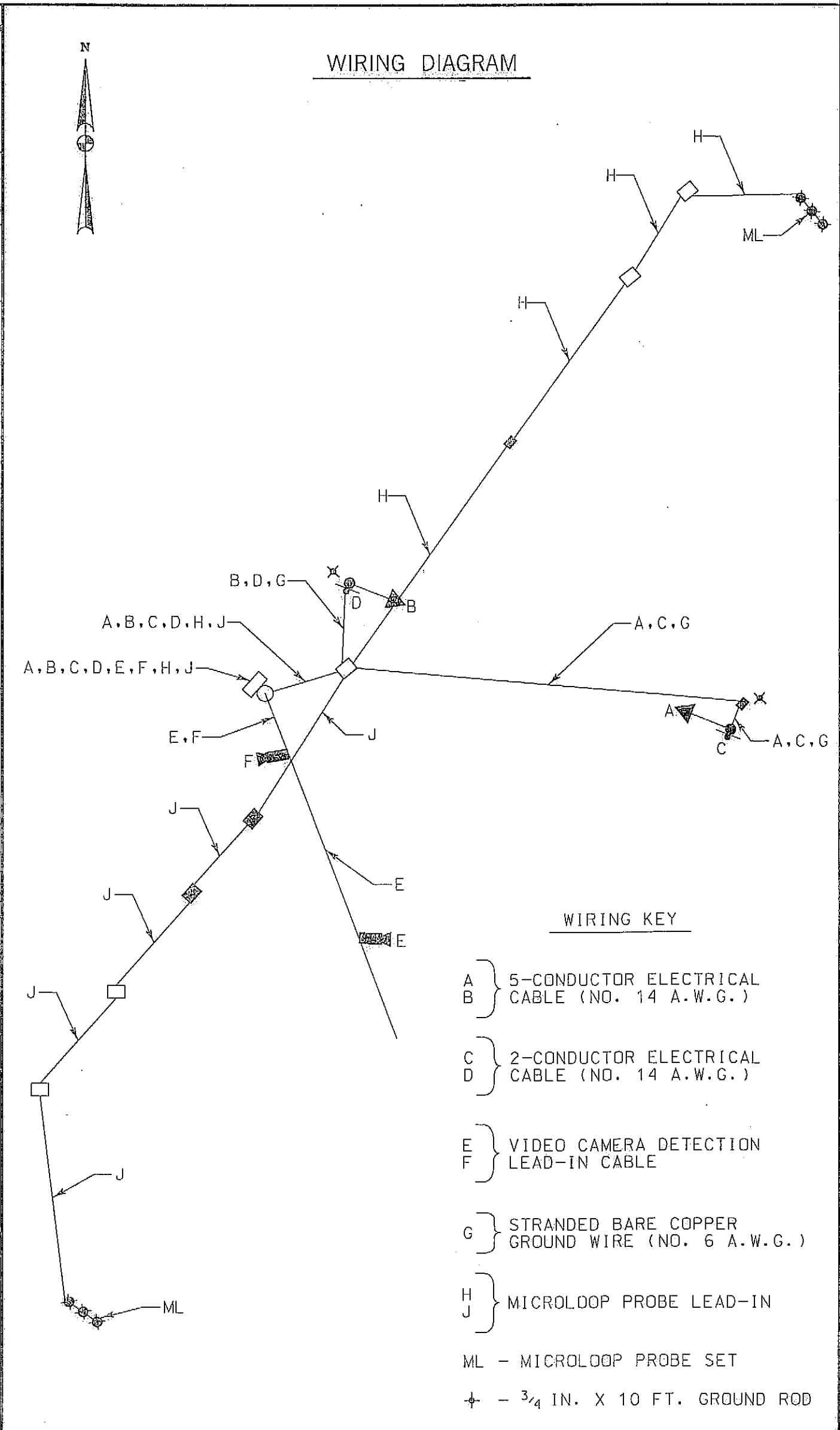
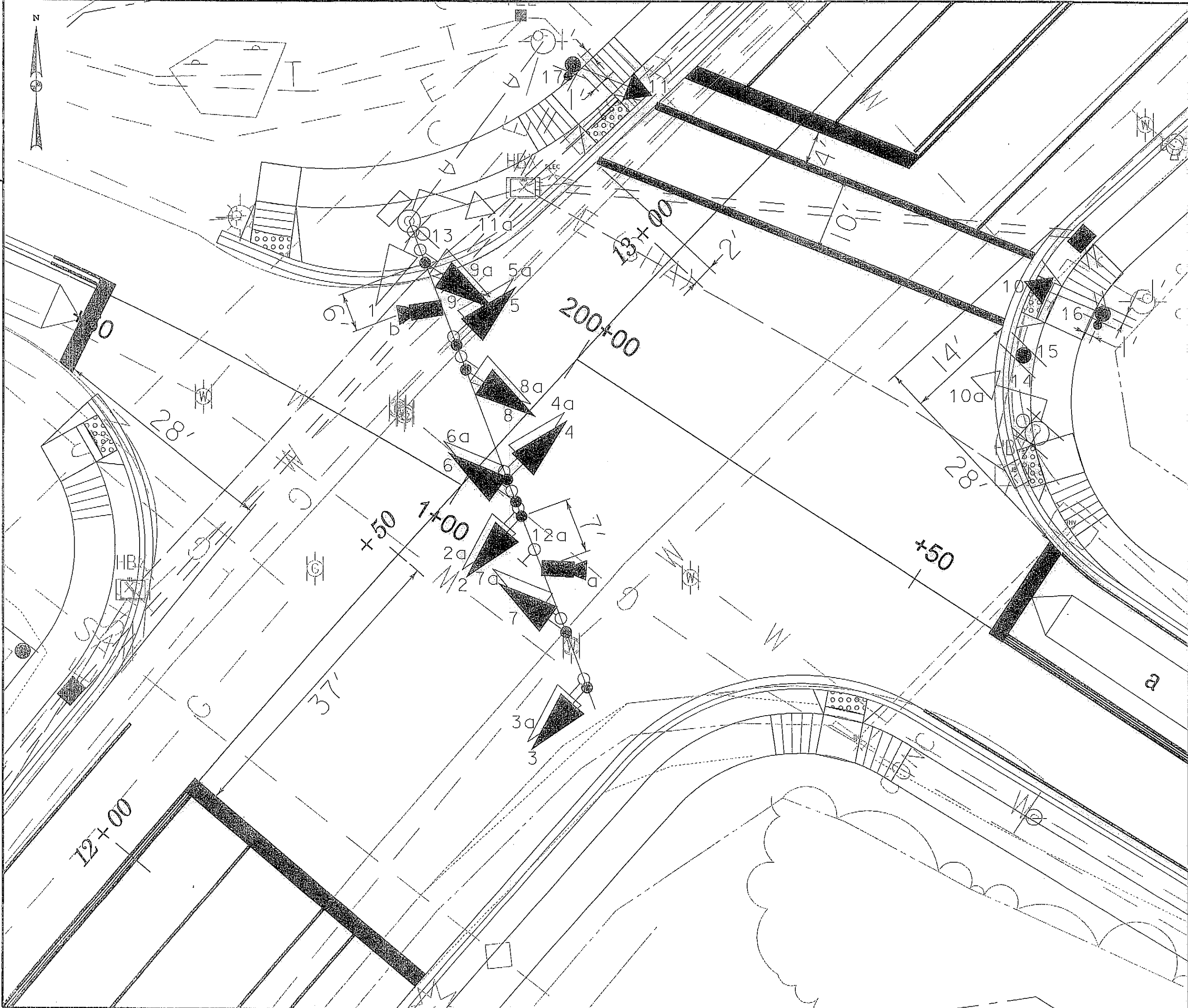
**PROJECT CONTACTS**

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. CEDRIC WARD, MONTGOMERY PHONE: (301) 513-7358 ASSISTANT DISTRICT ENGINEER - TRAFFIC	MR. KAMAL HAMUD MONTGOMERY COUNTY TMC PHONE: (240) 777-8761
MR. VERNON STINNETT ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (301) 513-7304	MR. RICHARD L. DAFF, SR. CHIEF, TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630
MR. VICTOR GRAFTON UTILITY ENGINEER PHONE: (301) 513-7351	MR. EDWARD RODENHIZER SIGNAL OPERATIONS MANAGER PHONE: (410) 787-7652

**EQUIPMENT LIST "B"**

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
CAT. CODE	QUANTITY	DESCRIPTION
203030	2 C.Y.	TEST PIT EXCAVATION
585621	115 L.F.	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
585625	100 L.F.	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
801004	2 C.Y.	CONCRETE FOR SIGNAL FOUNDATION
801104	16 L.F.	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
802145	1 EACH	ADJUST EXISTING HANDHOLE
802501	100 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	400 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805135	25 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
805145	75 L.F.	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805155	155 L.F.	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED
805160	10 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
810550	2 EACH	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE
811001	4 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	2 S.F.	INSTALL OVERHEAD SIGN
813023	10 S.F.	RELOCATE EXISTING GROUND MOUNTED SIGNS
816001	2 EACH	VIDEO DETECTION CAMERA
816005	2 EACH	CONTROL CABLE, 250 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER
818004	2 EACH	10 FOOT BREAKAWAY PEDESTAL POLE
837001	2 EACH	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	24 EACH	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
861105	175 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
861107	185 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
862102	70 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
800000	2 EACH	16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION
800000	1 EACH	2 INCH BLIND COUPLING FOR TRAFFIC SIGNAL STRUCT, WELDED & GALV
800000	1 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT
800000	1 L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT



**PHASE CHART**

	1	2	3	4	5	6	7	8	9	11	12
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
PHASE 2 + 6	G	G	G	G	G	R	R	R	R	DW	DW
2 + 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	DW	DW
PHASE 4 + 8	R	R	R	R	R	G	G	G	G	DW	DW
4 + 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW
PHASE 4 + 8 ALT	R	R	R	R	R	G	G	G	G	WK	WK
PED. CLEARANCE	R	R	R	R	R	G	G	G	G	FLDW	FLDW
4 + 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	DARK	DARK

**WR&A**  
WHITMAN, REQUARDT & ASSOCIATES, LLP  
801 South Caroline Street, Baltimore, Maryland 21201

**SHA**  
STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 27 (RIDGE ROAD) AT SWEEPSTAKES ROAD/MARLBORO DRIVE

REVISIONS		GENERAL INFORMATION SHEET	
		SCALE: 1" = 10' DATE: JANUARY 2011 CONTRACT NO.: MO2955187	
		DESIGNED BY: J. RASMUSSEN COUNTY: MONTGOMERY	
		DRAWN BY: J. RASMUSSEN LOGMILE:	
		CHECKED BY: N. LEARY TMS NO.: J520	
		F.A.P. NO.: SEE TITLE SHEET TOD NO.:	
		TS NO. TS-2087B DRAWING TSP-02 OF 2 SHEET NO. OF	